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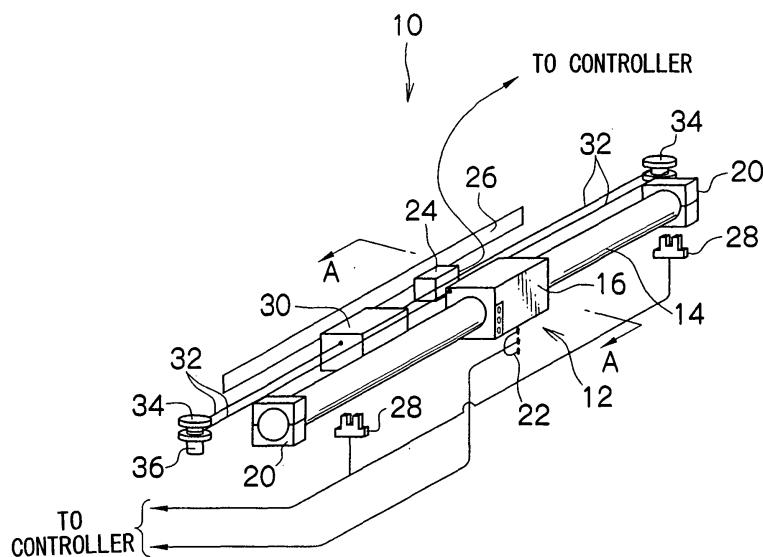
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(54) Uniaxial drive unit and surface shape measuring apparatus using the same

(57) There is provided a uniaxial drive unit (10) using a linear motor (12) having a fixed part (14) which is a rod-shaped magnet fixed to a unit body (18) and formed so that the N poles and the S poles are arranged alternately; and a moving part (16) which is a ring-shaped member having a coil member (40), fitted on the fixed part (14), and capable of moving along the fixed part (14). A driving

section (30) provided so as to be slidable in the uniaxial direction with respect to the unit body (18) is connected to the moving part (16) or a balance weight (31) fixed to the moving part (16) by a winding motion transmission member (32) via a winding motion transmitting support member (34) provided near one end or both ends of the unit body (18).

FIG.1





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			TECHNICAL FIELDS SEARCHED (IPC)
			G01B H02K
The present search report has been drawn up for all claims			
1	Place of search Berlin	Date of completion of the search 5 September 2006	Examiner Popovici, M
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 04 00 7273

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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